## PATENT COOPERATION TREATY

## **PCT**

## INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

	oplicant' 74922	's or agent's file reference	FOR FURTHER ACTION	see Notification of Transmittal of International Search Report (Form PCT/ISA/220) as well as, where applicable item 5 below.					
International application No. PCT/IB04/00719			International filing date (day/month/year) 22 January 2004 (22.01.2004)		(Earliest) Priority Date (day/month/year)				
Applicant PETROLEO BRASILEIRO S.A PETROBRAS									
This international search report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.  This international search report consists of a total of sheets.  It is also accompanied by a copy of each prior art document cited in this report.									
1. Basis of the Report  a. With regard to the language, the international search was carried out on the basis of the international application language in which it was filed, unless otherwise indicated under this item.  the international search was carried out on the basis of a translation of the international application furnished to Authority (Rule 23.1(b)).									
	ь.	search was carried out on the ba	gard to any nucleotide and/or amino acid sequence disclosed in the international application, the international vas carried out on the basis of the sequence listing:						
	H	contained in the international application in written form.  filed together with the international application in computer readable form.							
	H		·						
	H		rnished subsequently to this Authority in written form.  rnished subsequently to this Authority in computer readable form.						
	님								
		the statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.							
		the statement that the informa been furnished.	tion recorded in computer readable	form is ide	entical to the written sequence listing has				
2.		Certain claims were found unsearchable (See Box I).							
3.		Unity of invention is lacking (See Box II).							
4.	With I	regard to the title, the text is approved as submitted by the applicant.							
	鬥				·				
	ب	the text has been established by	y this Authority to read as follows:						
5.	With regard to the abstract,								
	$\boxtimes$	the text is approved as submitted by the applicant.							
		the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box III. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.							
6.	The figure of the drawings to be published with the abstract is Figure No. 1								
	$\boxtimes$	as suggested by the applicant.			None of the figures				
		because the applicant failed to	suggest a figure.	•					
		because this figure better chara	cterizes the invention.						

Form PCT/ISA/210 (first sheet) (July 1998)

## INTERNATIONAL SEARCH REPORT

International application No.

PCT/IB04/00719

CT A	COLETO ACTION OF CHIP IDOOR NA ACTION	<u></u>	1 01/100/10						
A. CLASSIFICATION OF SUBJECT MATTER  IPC(7): B08B 9/055  US CL: 15/104.061  According to International Patent Classification (IPC) or to both national classification and IPC									
B. FIELDS SEARCHED									
Minimum documentation searched (classification system followed by classification symbols)									
U.S.: 15/104.061, 3.5, 3.51									
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched									
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)									
C. DOCUMENTS CONSIDERED TO BE RELEVANT									
Category *	Citation of document, with indication, where	appropriate, of the relevan	it passages	Relevant to claim No.					
Α	US 4,509,222 A (KNAPP) 09 April 1985, see ent	1-12							
Α	US 5,384,929 A (SMITH) 31 January 1995, see e	1-12							
Α	US 5,533,224 A (KNAPP) 09 July 1996, see entir	1-12							
Α	US 6,014,789 A (KNAPP) 18 January 2000, see e	1-12							
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	documents are listed in the continuation of Box C.	See patent fam	ily annex.						
• Spe	ecial categories of cited documents:	"T" later document pu	blished after the intern	ational filing date or priority					
"A" document d of particula	lefining the general state of the art which is not considered to be or relevance	principle or theory	underlying the invent	ion but cited to understand the ion					
'E" earlier appli	ication or patent published on or after the international filing date	considered novel of	or cannot be considered	nimed invention cannot be I to involve an inventive step					
'L" document w establish the specified)	which may throw doubts on priority claim(s) or which is cited to e publication date of another citation or other special reason (as	"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is							
•	eferring to an oral disclosure, use, exhibition or other means	combined with one	or more other such do	ocuments, such combination					
	ublished prior to the international filing date but later than the	being obvious to a person skilled in the art  "&" document member of the same patent family							
Date of the actu	ual completion of the international search	Date of mailing of the int	ernational search	report					
6 July 2004 (2		Date of mailing of the int	EP 2004						
	ing address of the ISA/US	Authorized officer							
Comm	Stop PCT, Attn: ISA/US ussioner for Patents Box 1450	Randall Chin							
	ndria, Virginia 22313-1450	Telephone No. (571)272-	1900						

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